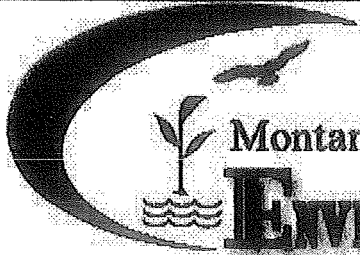


AGENCY USE ONLY				
PERMIT NO.:	Date Rec'd.:	Amount Rec'd.:	Check No.:	Rec'd By:
MT6010052	10/30/13	600	18627	PD



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OCT 29 2013

Montana Department of ENVIRONMENTAL QUALITY

PERMITTING & COMPLIANCE DIV.

WATER PROTECTION BUREAU

FORM NOI	Notice of Intent (NOI) for Montana Pollution Discharge Elimination System Application for New and Existing Concentrated Animal Feeding Operations
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The Application form is to be completed by the owner or operator of a Concentrated Animal Feeding Operation (CAFO) or Aquatic Animal Production Facility. Please read the attached instructions before completing this form. You must print or type legibly; forms that are not legible or are not complete will be returned. You must maintain a copy of the completed application form for your records.

Section A - Application Status (Check one):

☐ New
☐ Resubmitted
☒ Renewal
☐ Modification

No prior application submitted for this site.
 Permit Number: MTG 210052 - *new #*
 Permit Number: MTG 110000 - *general permit #*
 Permit Number: MTG _____

Section B - Facility or Site Information (See instruction sheet.):

Site Name 3 Hangin' C Dairy
 Site Location 3640 Linney Road Bozeman, MT 59718
 Nearest City or Town Belgrade County Gallatin
 Latitude ~ 45 1/2° N Longitude ~ 111° W
 Date Facility began operation? 1966

10/31/13

 Is this facility or site located on Indian Lands? ☐ Yes ☒ No

Section C - Applicant (Owner/Operator) Information:
 Owner or Operator Name Larry & Lorraine Klompier
 Mailing Address 3069 W. Cameron Bridge Rd
 City, State, and Zip Code Manhattan, MT 59741
 Phone Number 406-282-7697
 Is the person listed above the owner? ☒ Yes ☐ No
 Status of Applicant (Check one) ☐ Federal ☐ State ☒ Private ☐ Public ☐ Other (specify) _____

Section D - Existing or Pending Permits, Certifications, or Approvals: ☒ None

☐ MPDES _____ ☐ RCRA _____
☐ PSD (Air Emissions) _____ ☒ Other SIC 241 Dairy farm
☐ 404 Permit (dredge & fill) _____ ☐ Other _____

Section E - Standard Industrial Classification (SIC) Codes:

Provide at least one SIC code which best reflects the activity of project described in Section H.

Code	A. Primary	Code	B. Second
1	<u>241 - Dairy farm</u>	2	
Code	C. Third	Code	D. Fourth
3		3	

Section F - Facility or Site Contact Person/Position:

Name and Title, or Position Title Larry or Lorraine Klompiew
Mailing Address 3069 W. Cameron Bridge Rd
City, State, and Zip Code Manhattan, IN 45741
Phone Number 406-282-7697

Section G - Receiving Surface Waters(s):

Outfall/Discharge Locations: For each outfall, List latitude and longitude to the nearest second and the name of the receiving waters

Outfall Number	Latitude	Longitude	Receiving Surface Waters
001	<u>45.7561</u>	<u>-111.2471</u>	<u>Gallatin River</u>
002			
003			
004			
005			

Map: Attach a topographic map extending one mile beyond the property boundaries or the site activity identified in Section B depicting the facility or activity boundaries, major drainage patterns, and the receiving surface waters, stated above. Also identify the specific location of the production area, and land application area(s).

Is the receiving water on the 303(d) list for nutrients (nitrogen and/or phosphorus)

☐ Yes ☒ No

Section H – Concentration Animal Feeding Operation Characteristics

Waste Production, Storage and Disposal

	Animal type	Number in Open Confinement	Number Housed Under Roof - Free stalls
<input type="checkbox"/>	Mature Dairy Cows	250	
<input type="checkbox"/>	Dairy Heifers	100	
<input type="checkbox"/>	Veal Calves		
<input type="checkbox"/>	Cattle (not dairy or veal)		
<input type="checkbox"/>	Swine (55 lbs or over)		
<input type="checkbox"/>	Swine (55 lbs or under)		
<input type="checkbox"/>	Horses	NONE	
<input type="checkbox"/>	Sheep or Lambs		
<input type="checkbox"/>	Turkeys		
<input type="checkbox"/>	Chickens (broilers)		
<input type="checkbox"/>	Chickens (layers)		
<input type="checkbox"/>	Ducks		
<input type="checkbox"/>	Other (Specify: _____)		
<input type="checkbox"/>	Other (Specify: _____)		
<input type="checkbox"/>	Other (Specify: _____)		

Manure, Litter and/or Wastewater Production and Use.

How much manure, litter, and process wastewater is generated annually by the facility?

Solid (tons): 8200 Liquid/Slurry (gallons): 510,000

If land applied, how many acres of land under control of the permit applicant are available to apply the manure, litter, or process wastewater generated from the facility? (Note: Do not include setback distances in available acreage)

480 Acres

How much manure, litter, and process wastewater is transferred to other persons per year? (estimated) Solid

(tons): 0 Liquid/Slurry (gallons): 0

Were the containment structures built after February 2006? No

- ☐ Do the waste containment structures have 10 feet of separation between the pond bottom and any bedrock formations?
- ☐ Do the waste containment structures have 4 feet of separation from the pond bottom and any ground water?
- ☐ Were any of the waste containment structures built within 500 feet of any existing well?

Type of Containment/Storage	Total Capacity	Units (gallons or tons)	Days of Storage
<input type="checkbox"/> Anaerobic Lagoon			
<input checked="" type="checkbox"/> Storage Pond #1	60,000 ft ³	cubic ft	180
<input checked="" type="checkbox"/> Storage Pond #2	60,000 ft ³	cubic ft.	180
<input type="checkbox"/> Storage Pond #3			
<input type="checkbox"/> Storage Pond #4			
<input type="checkbox"/> Storage Pond #5			
<input type="checkbox"/> Above Ground Storage Tank			
<input type="checkbox"/> Below Ground Storage Tank #1			
<input type="checkbox"/> Below Ground Storage Tank #2			
<input type="checkbox"/> Underfloor Pits			
<input type="checkbox"/> Roofed Storage Shed			
<input checked="" type="checkbox"/> Concrete Pad 3 of them	13,125 ft ³	cubic ft	7
<input type="checkbox"/> Impervious Soil Pad			
<input type="checkbox"/> Other (Specify: _____)			
<input type="checkbox"/> Other (Specify: _____)			

Physical Data for CAFO

Nutrient Management Plan

All Concentrated Animal Feeding Operations seeking permit coverage after July 31, 2007 are required to complete and implement a Nutrient Management (NMP). The NMP must be submitted to the Department using the form provided by the Department (Form NMP). Check the box below that applies and provide the required information. The NMP must be developed in accordance with ARM 17.30.1334 and implemented upon the effective date of permit coverage. (Check One)

☒ Does the facility have an NMP?

Date NMP was developed: Sent to Helena DEQ Feb. 2009

Date NMP was last modified: _____

☐ NMP has not been prepared; provide detailed explanation below

Section I – Supplemental Information

Section J - CERTIFICATION

Permittee Information:

This Form NMP must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

All Permittees Must Complete the Following Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment for knowing violations. [75-5-633, MCA]

A. Name (Type or Print)

Larry Klompier & Lorraine K.

B. Title (Type or Print)

owners

C. Phone No.

406-282-7697

D. Signature

Larry Klompier

Lorraine K.

E. Date Signed

OCT 21, 2013

The Department will not process this form until all of the requested information is supplied, and the appropriate fees are paid. Return this form (NOI) and the applicable fee to:

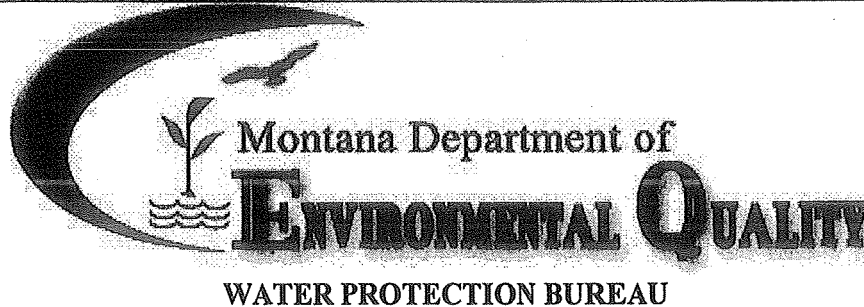
Department of Environmental Quality
Water Protection Bureau
PO Box 200901
Helena, MT 59620-0901
(406) 444-3080

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OCT 29 2013

DEQ/WPB
PERMITTING & COMPLIANCE DIV.

AGENCY USE ONLY				
PERMIT NO.: <i>MT6 010052</i>	Date Rec'd.:	Amount Rec'd.:	Check No.:	Rec'd By:



FORM NMP	Nutrient Management Plan
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READ THIS BEFORE COMPLETING FORM: Before completing this form (Form NMP), Concentrated Animal Feeding Operation (CAFO) operators need to read the General Permit, particularly Part IV.A. CAFO operators also need to read the "Instructions For filling out Form NMP," found at the back of this form. Form NMP is intended to help CAFO operators develop a site-specific Nutrient Management Plan, in compliance with Part IV.A of the General Permit and all applicable State rules and statutes. Your Nutrient Management Plan must be maintained at the site as required in Part III of the General Permit. Sections B and C on your Form NMP must state the information exactly the same way as it was stated on the most recently submitted version of your NOI-CAFO. Attach additional pages as necessary, indicating the corresponding section number on this NMP form. The 2013 General Permit, current fee schedule, and related forms are available from the Water Protection Bureau at (406) 444-3080 or <http://www.deq.mt.gov/wqinfo/MPDES/CAFO.asp>

Section A – NMP Status:

- ☐ New No prior NMP submitted for this site.
- ☐ Resubmitted Previous NMP found incomplete.
- ☐ Modification Change or update to existing NMP.
- ☒ New 2013 New 2013 version of NMP.

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OCT 29 2013

DEQ/WPB
PERMITTING & COMPLIANCE DIV.

Section B – Facility Information:

Facility Name 3 Hangin' C Dairy

Facility Location 3640 Linney Rd Bozeman, MT 59718

Nearest City of Town Belgrade County Gallatin

Section C – Applicant (Owner/Operator Information):

Owner or Operator Name Larry & Lorraine Klompiew

Mailing Address 3069 W. Cameron Bridge Rd.

City, State, and Zip code Manhattan, MT 59741

Facility Phone Number 406-282-7697

Email milkareus@aol.com

Section D – NMP Minimum Elements:

1. Livestock Statistics		
Animal Type and number of animals	# of Days on Site (per year)	Annual Manure Production (tons, cu. yds. or gal)
1. 250 ²⁵⁰ mature dairy cows	365	6798 ton
2. 100 dairy heifers	365	949 ton
3. 90 calves	365	328 ton
4.		
5.		
6.		
7.		
8.		

Method used for estimating annual manure production:

DEQ9 Circular (Feb 2006)

Table 1, page 12

$$1) 149\#/day \times 365 \div 2000 \times 250$$

$$2) 52\#/day \times 365 \div 2000 \times 100$$

$$3) 20\#/day \times 365 \div 2000 \times 90$$

2. Manure Handling

a. Describe Manure handling at the facility: Manure scraped into concrete holding areas daily then spread on fields every 3-5 days in spring & fall.

b. Frequency of Manure Removal from confinement areas:

3-5 days from free-stall alleys; 2-3 times per year from pens

c. Is this manure temporarily stored in any location other than the confinement area? ☒ Yes ☒ No
If so then how and where?

We store manure in the dry lot during the summer & winter when either crops are being grown or while the soil is frozen.

d. Is manure stored on impervious surface? ☒ Yes ☐ No

If yes, describe type and characteristics of this surface:

The dry lot area where it is stored has had manure stored there for over 45 yrs., so the ground would be sealed.

3. Waste Control Structures					
Waste Control Structures (name/type)	Length (ft.)	Width (ft.)	Depth (ft.)	Volume (cubic ft. or gallons)	Number of days of storage
1. Concrete holding area #1	45	50	2	4500 ft ³	7 days
2. " " #2	48	50	2	4800 ft ³	7 "
3. " " #3	30	51	2.5	3825 ft ³	7 "
4.					
5. Lagoon #1	100	100	6	60,000 ft ³	180
6. " #2	100	100	6	60,000 ft ³	180
7.					
8.					
9.					
10.					
11.					
12.					

What is the 24 hr. 25 yr. storm event at this facility 2.4 inches

Production area: 19 acres. Type of lot (dirt or paved): dirt

Area contributing drainage from outside CAFO that enters confinement areas and waste storage, conveyance, or treatment structures: 0 acres.

What is the annual precipitation during the critical storage period 5 inches

How much freeboard do the pond(s) have 2.5 ft.

4. Disposal of Dead Animals.

Describe how dead animals are disposed of at this facility:

We dig a 6" trench, bury them.

5. Clean Water Diversion Practices

Describe how clean water is diverted from production area:

Grass areas behind sheds & freestalls soak up rain water and run off. Driveways are graded to divert water from pens. The land is quite level so most water doesn't flow too far.

6. Prohibiting Animals and Wastes from Contact with State Waters

Describe how animals and wastes are prohibited from direct contact with state waters:

Berms & vegetation along the Moreland Canal. Pens are situated away from canal. Animals don't have access to the canal.

Describe how Chemicals and other contaminants are handled on-site:

Chemicals are kept in sealed containers in the barn for dairy use (soaps, cleaners)
Farm/field chemicals are stored in original containers in the shop.

7. Best Management Practice (BMPS)

Describe in detail all temporary, permanent and structural BMPS which will be used to control runoff of pollutants from facility's production area. Indicate the location of these measures. If BMPS are not installed include a schedule for implementation of each of these measures. Examples of BMP measures could include but are not limited to: constructing ditches, terraces, and waterways above and open lot to divert clean water run on; installing gutters, downspouts and buried conduits to divert roof drainage; providing more roofed area; decreasing open lot surface area; repairing or adjusting water systems to minimize water wastage; using practical amounts of water for cooling purposes; recycling water if practical and applicable.

Production Area BMP's

Berms & vegetation along the Moreland Ditch. The Roy Ditch is completely enclosed in culverts

Underground pipes control barn waste water & carry it to the lagoon.

Describe in detail all temporary, permanent and structural Best Management Practices (BMPs) which will be used to control runoff of pollutants from facility's land production area. Indicate the location of these practices. If not already in use, include a schedule for implementation of each of these measures. Attached details and specifications may be used to supplement this description. Examples of BMP measures could include but are not limited to: maintaining setbacks from surface waters for manure applications; managing irrigation practices to prevent ponding of wastewater on land application sites;

never spray irrigating waste on to frozen ground: consulting with the Department prior to applying any liquid waste to frozen or snow-covered ground; applying wastes at agronomic rates.

Land Application BMP's

Berns with vegetation and culverts prevent waste water from reaching state waters (prevent any waste water from entering the Muckland out Rony's ditch) Animals do not have access to state waters

Buffers

☒ Yes ☐ No

Conservation Tillage

☐ Yes ☐ No

Constructed Wetlands

☐ Yes ☒ No

Grass Filter

☒ Yes ☐ No

Infiltration Field

☐ Yes ☒ No

Residue Management

☐ Yes ☐ No

Set backs

☐ Yes ☐ No

Terrace

☒ Yes ☐ No

Other examples

8. Implementation, Operation, Maintenance and Record Keeping – Guidance

The permittee is required to develop guidance addressing implementation of NMP, proper operation and maintenance of the facility, and record keeping as described in Part 2 of the permit.

Has a guidance document been developed for the facility? ☒ Yes ☐ No

Certify the document address the following requirements:

Implementation of the NMP:

☒ Yes ☐ No

Facility operation and maintenance:

☒ Yes ☐ No

Record keeping and reporting

☒ Yes ☐ No

Sample collection and analysis:

☒ Yes ☐ No

Manure transfer

☒ Yes ☐ No

Provide name, date and location of most recent documentation:

A Compliance Evaluation inspection was done in Aug. 2012 and we made corrections per that day's visit. Christopher Romankiewicz from DEQ did the inspection

If your answer to any of the above question is no, provide explanation:

Section E – Land Application

Will manure be land applied to land either owned, rented, or leased by the owner or operator of the facility?

- ☒ Yes If yes, then the information requested in Section E must be provided.
☐ No If no, then provide an explanation of how animal waste at this facility are managed.

Photos and/or Maps

Attach an aerial photograph or map of the site where manure is to be applied. (Use multiple photos/maps if necessary to show required details.) The photo(s)/map(s) must be printed on no larger than an 11"X 17" piece of paper, and must clearly identify the following items:

- Individual field boundaries for all planned land application areas
- A name, number, letter or other means of identifying each individual land application field
- The location of any downgradient surface waters.
- The location of any downgradient open tile line intake structures
- The location of any downgradient sinkholes
- The location of any downgradient agricultural well heads
- The location of all conduits to surface waters
- The specific manure/waste handling or nutrient management restrictions associated with each land application field
- The soil type(s) present and their locations within the individual land application field(s)
- The location of buffers and setbacks around state surface waters, well heads, etc.

Land Application Equipment Calibration

Describe the type of equipment used to land apply wastes and the calibration procedures:

*3 manure spreaders - use manure consistency & speed to calibrate
1 slurry tank - adjustable opening for calibration*

Manure Sampling and Analysis Procedures

A representative manure sample will be analyzed a minimum of once annually for Total Nitrogen, and Total Phosphorus. Analysis results will be reported in lbs/ton or lbs/1,000 gal. Results of these analyses will be used in determining rates for manure, litter, and process wastewater.

Manure Sample collection will occur according to ARM 17.30.1334

*collected and sent to state lab
in mid-October 2013*

Other (describe)

Soil Sampling and Analysis Procedures

Representative soil (composite) samples from the top 6 inches layer of soil for each field where manure will be applied must be analyzed for phosphorus content at least once every three years. Analyses will be conducted by a qualified laboratory, using the Olsen P test. Results will be reported in parts per million (ppm) and will be used in determining application rates for manure, litter, and process wastewater

Soil samples collection will occur according the methods in ARM 17.30.1334

*collected and sent to
appropriate lab in mid-Oct
2013*

Other (describe)

Phosphorus Risk Assessment

The permittee shall assess the risk of phosphorus contamination of state waters. An assessment shall be conducted for each field, under the control of the operator, to which manure, litter or process wastewater will or

may be applied. If a new field is added in the future, then the permittee must submit a revised (modified) NMP. The permittee has the option of using Method A or Method B (below) to complete the assessment. Copies of all tables and calculations used to complete the assessments, as well as the results of the assessments, shall be submitted to the Department and copies shall be maintained on-site at the facility and available for Departmental review. The results of the assessments shall be used to determine the appropriate basis for land application of wastes from the facility.

Method Used

Indicate which method will be used to determine phosphorus application:

Method A – Representative Soil Sample

Method B – Phosphorus Index

Method A – Representative Soil Sample

– using this method

- Obtain one or more representative soil sample(s) from the field per 17.30.1334
- Have the sample analyzed for Phosphorus by a qualified lab. The “Olsen P test” must be used for the analysis, and the result must be reported in parts per million (ppm)
- Using the results of the Olsen P test, determine application basis according to the Table below.

Soil Test

Olsen P Soil Test Results (ppm)	Application Basis
<25.0	Nitrogen Needs of Crop
25.1 - 100.0	Phosphorus Needs of Crop
100.0 – 150.0	Phosphorus Needs up to Crop Removal Rate
>150.0	No Application allowed

Method B – Phosphorus Index

- Complete a phosphorus Index according to the crop grown on each field. Complete table in Appendix A to calculate phosphorus index. For information on filling out specific sections in Appendix A, please refer to the method as described in Natural Resource Conservation Service (NRCS), Agronomy Technical Note MT-77 (rev3), January 2006.
- Using the calculated Total Phosphorus Index Value, assign the overall site/field vulnerability to phosphorus loss according to the table below.

Total Phosphorus

Total Phosphorus Index Value	Site Vulnerability to Phosphorus Loss
<11	Low
11-21	Medium
22-43	High
>43	Very High

- Using the calculated Site Vulnerability to Phosphorus Loss, determine the appropriate application basis according to the table below.

Site Vulnerability to Phosphorus Loss	Application Basis
Low	Nitrogen Needs
Medium	Nitrogen Needs
High	Phosphorus Need Up to Crop Removal
Very High	Phosphorus Crop Removal or No Application

The applicant has 2 ways in which to report how manure or process wastewater application rates can be reported to DEQ.

1. Linear Approach. Expresses rates of application as pounds of nitrogen and phosphorus. CAFOs selecting the linear approach to address rates of application must include in the NMP submitted to the permitting authority the following information for each crop, field, and year covered by the NMP, which will be used by the permitting authority to establish site-specific permit terms:

- The maximum application rate (pounds/acre/year of nitrogen and phosphorus) from manure, litter, and process wastewater.
- The outcome of the field-specific assessment of the potential for nitrogen and phosphorus transport from each field. [If a state does not have an N transport risk assessment, the NMP must document any basis for assuming that nitrogen will be fully used by crops.] The CAFO must specify any conservation practices used in calculating the risk rating.
- The crops to be planted or any other uses of a field such as pasture or fallow fields.
- The realistic annual yield goal for each crop or use identified for each field.
- The nitrogen and phosphorus recommendations from in ARM 17.30.1334 (technical standard) for each crop or use identified for each field.
- Credits for all residual nitrogen in each field that will be plant-available.
- Consideration of multi-year phosphorus application. For any field where nutrients are applied at a rate based on the crop phosphorus requirement, the NMP must account for single-year nutrient applications that supply more than the crop's annual phosphorus requirement.
- All other additions of plant available nitrogen and phosphorus (i.e., from sources other than manure, litter, or process wastewater or credits for residual nitrogen).
- The form and source of manure, litter, and process wastewater to be land-applied.
- The timing and method of land application. The NMP also must include storage capacities needed to ensure adequate storage that accommodates the timing indicated.
- The methodology that will be used to account for the amount of nitrogen and phosphorus in the manure, litter, and wastewater to be applied.
- Any other factors necessary to determine the maximum application rate identified in accordance with this Linear Approach.

2. Narrative Rate Approach. Expresses a narrative rate of application that results in the amount, in tons or gallons, of manure, litter, and process wastewater to be land applied. CAFOs selecting the narrative rate approach to address rates of application must include in the NMP submitted to the permitting authority the following information for each crop, field, and year covered by the NMP, which will be used by the permitting authority to establish site-specific permit terms:

- The maximum amounts of nitrogen and phosphorus that will be derived from all sources of nutrients (pounds/acre for each crop and field).
- The outcome of the field-specific assessment of the potential for nitrogen and phosphorus transport from each field. The CAFO must specify any conservation practices used in calculating the risk rating.
- The crops to be planted in each field or any other uses of a field such as pasture or fallow fields, including alternative crops if applicable. Any alternative crops included in the NMP must be listed by field, in addition to the crops identified in the planned crop rotation for that field.
- The realistic annual yield goal for each crop or use identified for each field for each year, including any alternative crops identified.
- The nitrogen and phosphorus recommendations from *[the permitting authority to specify acceptable sources]* for each crop or use identified for each field, including any alternative crops identified.
- The methodology (including formulas, sources of data, protocols for making determination, etc.) and actual data that will be used to account for: (1) the results of soil tests required by Parts II.A.4.b and III.A.3.g of this

permit, (2) credits for all nitrogen in the field that will be plant- available, (3) the amount of nitrogen and phosphorus in the manure, litter, and process wastewater to be applied, (4) consideration of multi-year phosphorus application (for any field where nutrients are applied at a rate based on the crop phosphorus requirement, the methodology must account for single-year nutrient applications that supply more than the crop's annual phosphorus requirement), (5) all other additions of plant available nitrogen and phosphorus to the field (i.e., from sources other than manure, litter, or process wastewater or credits for residual nitrogen), (6) timing and method of land application, and (7) volatilization of nitrogen and mineralization of organic nitrogen.

- Any other factors necessary to determine the amounts of nitrogen and phosphorus to be applied in accordance with the Narrative Rate Approach.

- NMPs using the Narrative Rate Approach must also include the following projections, which will not be used by the permitting authority in establishing site-specific permit terms:

- i. Planned crop rotations for each field for the period of permit coverage.

- ii. Projected amount of manure, litter, or process wastewater to be applied.

- iii. Projected credits for all nitrogen in the field that will be plant-available.

- iv. Consideration of multi-year phosphorus application.

- v. Accounting for other additions of plant-available nitrogen and phosphorus to the field.

- vi. The predicted form, source, and method of application of manure, litter, and process wastewater for each crop

- If the receiving water is on the 303(d) list for nutrients then the narrative rate approach must be used.

- a. For the Linear Approach the permittee will complete the Nutrient Budget Worksheet, below, for the next 5 years to which manure or process waste water is or may be applied. A copy of each Nutrient Budget Worksheet will be maintained on site, and a copy will be submitted to the Department.

Hoffman - Cobble Loam

Nutrient Budget Worksheet

Field identification: 1		Year: 2014	Crop: Spring wheat	
Expected Crop Yield: 80 bu/acre				
Phosphorus index results or Phosphorus application from soil test:				
Method of Application: Spreader				
When will application occur: fall 2013				
Nutrient Budget		Nitrogen-based Application	Phosphorus-based Application	Source of information
1	Crop Nutrient Needs, lbs/acre	0	0	Agriase Lab
2	(-) Credits from previous legume crops, lbs/ac			
3	(-) Residuals from past manure production lbs/acre			
4	(-) Nutrients supplied by commercial fertilizer and Biosolids, lbs/acre			
5	(-) Nutrients supplied in irrigation water, lbs/acre			
6	= Additional Nutrients Needed, lbs/acre			
7	Total Nitrogen and Phosphorus in manure, lbs/ton or lbs/1000 gal (from manure test)	10.7/ton x 1	779/ton x 1	Manure test
8	(x) Nutrient Availability factor, for Phosphorus based application use 1.0	10.7	779	
9	= Available Nutrients in Manure, lbs/ton or lbs/1000 gal	10.7/ton	779/ton	
10	Additional Nutrients needed, lbs/acre (calculated above)			
11	(/) Available Nutrients in Manure, lbs/ton or lbs/1000 gal (calculated above)			
12	= Manure Application Rate, tons/acre or 1000 gal/acre			

Comments:

Based on soil sample will not apply manure here

Albini - Cobby Farms

Nutrient Budget Worksheet

Field identification: <u>2</u>		Year: <u>2014</u>	Crop: <u>Alfalfa</u>	
Expected Crop Yield: <u>5 ton/acre</u>				
Phosphorus index results or Phosphorus application from soil test:				
Method of Application: <u>Spreader</u>				
When will application occur: <u>Fall 2011</u>				
Nutrient Budget		Nitrogen-based Application	Phosphorus-based Application	Source of information
1	Crop Nutrient Needs, lbs/acre	<u>130</u>	<u>0</u>	<u>Agvise Lab</u>
2	(-) Credits from previous legume crops, lbs/ac	<u>0</u>	<u>0</u>	
3	(-) Residuals from past manure production lbs/acre			
4	(-) Nutrients supplied by commercial fertilizer and Biosolids, lbs/acre	<u>0</u>	<u>0</u>	
5	(-) Nutrients supplied in irrigation water, lbs/acre			
6	= Additional Nutrients Needed, lbs/acre			
7	Total Nitrogen and Phosphorus in manure, lbs/ton or lbs/1000 gal (from manure test)	<u>10.7/ton</u>	<u>779/ton</u>	<u>Manure test</u>
8	(x) Nutrient Availability factor, for Phosphorus based application use 1.0	<u>x1</u>	<u>x1</u>	
9	= Available Nutrients in Manure, lbs/ton or lbs/1000 gal	<u>10.7</u>	<u>779</u>	
10	Additional Nutrients needed, lbs/acre (calculated above)	<u>0</u>	<u>0</u>	
11	(/) Available Nutrients in Manure, lbs/ton or lbs/1000 gal (calculated above)			
12	= Manure Application Rate, tons/acre or 1000 gal/acre	<u>0</u>	<u>0</u>	

Comments:

no manure will be applied to alfalfa ground this year

Karch - Cobby Loans

Nutrient Budget Worksheet

Field identification: <u>3</u>		Year: <u>2014</u>	Crop: <u>Spring Wheat</u>	
Expected Crop Yield: <u>80 bu./acre</u>				
Phosphorus index results or Phosphorus application from soil test:				
Method of Application: <u>Sprayer</u>				
When will application occur: <u>Fall 2013</u>				
Nutrient Budget		Nitrogen-based Application	Phosphorus-based Application	Source of information
1	Crop Nutrient Needs, lbs/acre	<u>0</u>	<u>0</u>	<u>Agwise Lab</u>
2	(-) Credits from previous legume crops, lbs/ac	<u>0</u>	<u>0</u>	
3	(-) Residuals from past manure production lbs/acre			
4	(-) Nutrients supplied by commercial fertilizer and Biosolids, lbs/acre	<u>0</u>	<u>0</u>	
5	(-) Nutrients supplied in irrigation water, lbs/acre	<u>0</u>	<u>0</u>	
6	= Additional Nutrients Needed, lbs/acre	<u>0</u>	<u>0</u>	
7	Total Nitrogen and Phosphorus in manure, lbs/ton or lbs/1000 gal (from manure test)	<u>10.7/ton</u>	<u>779/ton</u>	<u>Manure Test</u>
8	(x) Nutrient Availability factor, for Phosphorus based application use 1.0	<u>x 1</u>	<u>x 1</u>	
9	= Available Nutrients in Manure, lbs/ton or lbs/1000 gal	<u>10.7</u>	<u>779</u>	
10	Additional Nutrients needed, lbs/acre (calculated above)			
11	(/) Available Nutrients in Manure, lbs/ton or lbs/1000 gal (calculated above)			
12	= Manure Application Rate, tons/acre or 1000 gal/acre			

Comments:

Based on soil sample no manure needed.

West of House - Cobble Loam

Nutrient Budget Worksheet

Field identification: 4 Year: 2014 Crop: spring wheat
 Expected Crop Yield: 20 lbs/acre
 Phosphorus index results or Phosphorus application from soil test:
 Method of Application: spreader
 When will application occur: Fall 2013

Nutrient Budget			Nitrogen-based Application	Phosphorus-based Application	Source of information
1		Crop Nutrient Needs, lbs/acre	<u>0</u>	<u>55</u>	<u>Agriwise Lab</u>
2	(-)	Credits from previous legume crops, lbs/ac	<u>0</u>	<u>0</u>	
3	(-)	Residuals from past manure production lbs/acre	<u>0</u>	<u>0</u>	
4	(-)	Nutrients supplied by commercial fertilizer and Biosolids, lbs/acre	<u>0</u>	<u>0</u>	
5	(-)	Nutrients supplied in irrigation water, lbs/acre	<u>0</u>	<u>55</u>	
6		= Additional Nutrients Needed, lbs/acre	<u>0</u>	<u>55</u>	
7		Total Nitrogen and Phosphorus in manure, lbs/ton or lbs/1000 gal (from manure test)	<u>10.7/ton</u>	<u>779/ton</u>	<u>manure test</u>
			<u>x1</u>	<u>x1</u>	
8	(x)	Nutrient Availability factor, for Phosphorus based application use 1.0	<u>10.7</u>	<u>779</u>	
9		= Available Nutrients in Manure, lbs/ton or lbs/1000 gal	<u>10.7</u>	<u>779</u>	
10		Additional Nutrients needed, lbs/acre (calculated above)	<u>0</u>	<u>55</u>	
11	(/)	Available Nutrients in Manure, lbs/ton or lbs/1000 gal (calculated above)	<u>0</u>	<u>779</u>	
12		= Manure Application Rate, tons/acre or 1000 gal/acre	<u>0</u>	<u>about 1/10 of ton per acre</u>	

Comments:

Dryland - Brocks silt loam & Quagly Brodyk Silt Loam

Nutrient Budget Worksheet

Field identification: Dryland Year: 2014 Crop: Barley (170)				
Expected Crop Yield: 50 Bushel to acre				
Phosphorus index results or Phosphorus application from soil test: 9ppm				
Method of Application: Broadcast				
When will application occur: May 2014				
Nutrient Budget		Nitrogen-based Application	Phosphorus-based Application	Source of information
1	Crop Nutrient Needs, lbs/acre	125	30	Agri-se Labs
2	(-) Credits from previous legume crops, lbs/ac	0	0	
3	(-) Residuals from past manure production lbs/acre			
4	(-) Nutrients supplied by commercial fertilizer and Biosolids, lbs/acre	125	30	Agri-se Lab
5	(-) Nutrients supplied in irrigation water, lbs/acre	- dryland -		
6	= Additional Nutrients Needed, lbs/acre	0	0	
7	Total Nitrogen and Phosphorus in manure, lbs/ton or lbs/1000 gal (from manure test)	10.7 lbs/ton	779/ton	manure test by State Lab
8	(x) Nutrient Availability factor, for Phosphorus based application use 1.0	x1 10.7	x1 779	
9	= Available Nutrients in Manure, lbs/ton or lbs/1000 gal	10.7	779	
10	Additional Nutrients needed, lbs/acre (calculated above)	0	0	
11	(/) Available Nutrients in Manure, lbs/ton or lbs/1000 gal (calculated above)	10.7	779	
12	= Manure Application Rate, tons/acre or 1000 gal/acre	0	0	

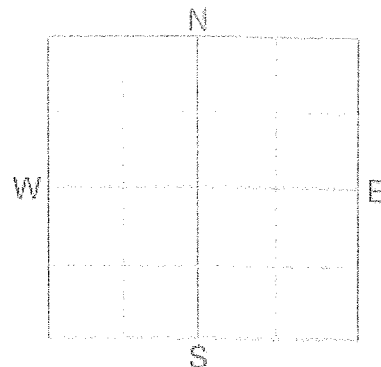
Comments:



Soil Analysis by Agvise Laboratories
(http://www.agvise.com)
Northwood: (701) 587-6010
Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID
SAMPLE ID **HOME** **#4**
FIELD NAME
COUNTY
TWP RANGE
SECTION QTR ACRES **0**
PREV. CROP **Alfalfa**



SUBMITTED FOR:
LARRY KLOMPIEN

SUBMITTED BY: **CE3923**
ROCKY MTN SUPPLY
311 GALLATIN FARMERS
PO BOX 129
BELGRADE, MT 59714

REF # **14700905** BOX # **0**
LAB # **NW140434**

Date Sampled

Date Received **10/31/2013**

Date Reported **11/5/2013**

Nutrient In The Soil		Interpretation		1st Crop Choice		2nd Crop Choice		3rd Crop Choice	
Nitrate	0-12"	26 lb/ac	*****	Alfalfa					
				YIELD GOAL		YIELD GOAL		YIELD GOAL	
				8 Tons		0		0	
				SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES	
				University					
Phosphorus	Olsen	10 ppm	*****	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION
				N	0	N		N	
	Potassium	333 ppm	*****	P ₂ O ₅	55 Broadcast	P ₂ O ₅		P ₂ O ₅	
				K ₂ O	0	K ₂ O		K ₂ O	
				Cl		Cl		Cl	
Chloride	0-12"	24 lb/ac	*****	S	25 Broadcast	S		S	
	Sulfur			B		B		B	
	Boron			Zn	Not Available	Zn		Zn	
	Zinc	0.78 ppm	*****	Fe		Fe		Fe	
	Iron			Mn		Mn		Mn	
Manganese				Cu		Cu		Cu	
	Copper			Mg		Mg		Mg	
	Magnesium			Lime		Lime		Lime	
	Calcium								
	Sodium								
Org. Matter		3.0 %	*****						
	Carbonate(CCE)								
	0-12"	0.26 mmho/cm	*****						
	Sol. Salts								
				Soil pH	Buffer pH	Cation Exchange Capacity		% Base Saturation (Typical Range)	
						% Ca	% Mg	% K	% Na
									% H
				0-6"	7.1				

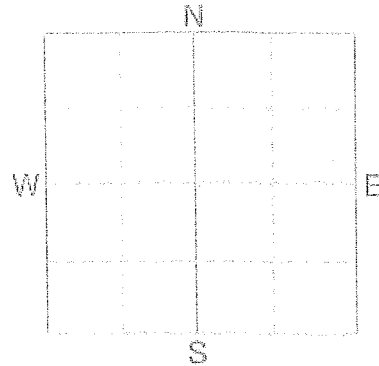
Crop 1: Soil Nitrogen level is estimated at 26 lbs/acre. Nitrogen is credited 50 lbs for the previous crop on University Guidelines. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 80 K2O = 400 University guidelines will build P & K soil test levels to the medium range over many years.



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(http://www.agvise.com)
Northwood: (701) 587-6010
Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID
SAMPLE ID **HOFFMAN** #1
FIELD NAME
COUNTY
TWP RANGE
SECTION QTR ACRES **0**
PREV. CROP **Alfalfa**



SUBMITTED FOR:
LARRY KLOMPIEN

SUBMITTED BY: **CE3923**
ROCKY MTN SUPPLY
311 GALLATIN FARMERS
PO BOX 129
BELGRADE, MT 59714

REF # **14700906** BOX # **0**
LAB # **NW140383**

Date Sampled

Date Received **10/31/2013**

Date Reported **11/5/2013**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice					
Nitrate	0-12"	20 lb/ac		Low	Med	High	Alfalfa										
			*****			YIELD GOAL			YIELD GOAL			YIELD GOAL					
						8 Tons			0			0					
						SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES					
						University											
Olsen	15 ppm	*****				LB/ACRE		APPLICATION	LB/ACRE		APPLICATION	LB/ACRE		APPLICATION			
Phosphorus							N	0		N			N				
Potassium		397 ppm	*****				P ₂ O ₅		0		P ₂ O ₅			P ₂ O ₅			
Chloride	0-12"	16 lb/ac	*****				K ₂ O		0		K ₂ O			K ₂ O			
							Cl				Cl			Cl			
							S		25	Broadcast	S			S			
							B				B			B			
							Zn			Not Available	Zn			Zn			
Sulfur							Fe				Fe			Fe			
Boron							Mn				Mn			Mn			
Zinc		1.07 ppm	*****				Cu				Cu			Cu			
Iron							Mg				Mg			Mg			
Manganese							Lime				Lime			Lime			
Copper																	
Magnesium																	
Calcium																	
Sodium																	
Org. Matter		3.0 %	*****														
Carbonate(CCE)																	
Sol. Salts	0-12"	0.24 mmho/cm	*****				Soil pH		Buffer pH	Cation Exchange Capacity		% Base Saturation (Typical Range)					
											% Ca		% Mg	% K	% Na	% H	
							0-6"		7.4								

Crop 1: Soil Nitrogen level is estimated at 20 lbs/acre. Nitrogen is credited 50 lbs for the previous crop on University Guidelines. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 80 K2O = 400 University guidelines will build P & K soil test levels to the medium range over many years.

RECEIVED

NOV 12 2013

DEQWPB
PERMITTING & COMPLIANCE DIV.

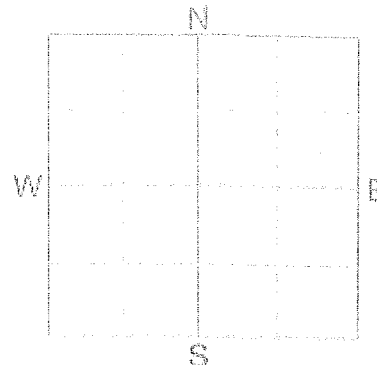
11/12/13



Soil Analysis by Agvise Laboratories
(http://www.agvise.com)
Northwood: (701) 587-6010
Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID **WEST AMSTERDAM**
SAMPLE ID
FIELD NAME **#5**
COUNTY
TWP RANGE
SECTION QTR ACRES **0**
PREV. CROP



SUBMITTED FOR:
LARRY KLOMPIEN

SUBMITTED BY: **CE3923**
ROCKY MTN SUPPLY
311 GALLATIN FARMERS
PO BOX 129
BELGRADE, MT 59714

REF # **11831755** BOX # **0**
LAB # **NW140375**

Date Sampled

Date Received **10/31/2013**

Date Reported **11/5/2013**

Nutrient In The Soil		Interpretation				1st Crop Choice		2nd Crop Choice		3rd Crop Choice			
0-12"	10 lb/ac	*****		Med	High	Barley							
						YIELD GOAL		YIELD GOAL		YIELD GOAL			
						90 BU		0		0			
						SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES			
						University							
Nitrate													
Olsen	9 ppm	*****				LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION
Phosphorus						N	125	N		N		N	
Potassium	282 ppm	*****				P ₂ O ₅	30 Broadcast	P ₂ O ₅		P ₂ O ₅		P ₂ O ₅	
						K ₂ O	10 Band (Starter)*	K ₂ O		K ₂ O		K ₂ O	
Chloride						Cl		Cl		Cl		Cl	
0-12"	12 lb/ac	*****				S	25 Broadcast	S		S		S	
Sulfur						B		B		B		B	
Boron						Zn	Not Available	Zn		Zn		Zn	
Zinc	0.29 ppm	*****				Fe		Fe		Fe		Fe	
Iron						Mn		Mn		Mn		Mn	
Manganese						Cu		Cu		Cu		Cu	
Copper						Mg		Mg		Mg		Mg	
Magnesium						Lime		Lime		Lime		Lime	
Calcium													
Sodium													
Org.Matter	1.6 %	*****											
Carbonate(CCE)													
0-12"	0.28 mmho/cm	*****				Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)				
Sol. Salts									% Ca	% Mg	% K	% Na	% H
						0-6" 8.5							

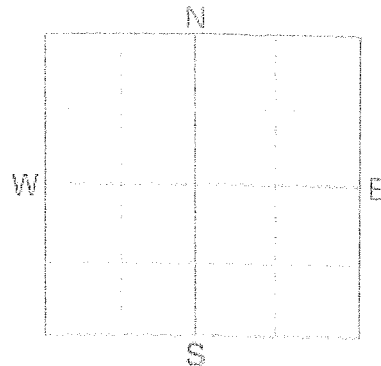
Crop 1: Soil Nitrogen level is estimated at 20 lbs/acre. * Caution: Seed Placed Fertilizer Can Cause Injury * Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 42 K2O = 45 University guidelines will build P & K soil test levels to the medium range over many years.



Soil Analysis by Agvise Laboratories
(http://www.agvise.com)
Northwood: (701) 587-6010
Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID
SAMPLE ID **ALBINI** #2
FIELD NAME
COUNTY
TWP RANGE
SECTION QTR ACRES
PREV. CROP **Barley**



SUBMITTED FOR:
LARRY KLOMPIEN

SUBMITTED BY: **CE3923**
ROCKY MTN SUPPLY
311 GALLATIN FARMERS
PO BOX 129
BELGRADE, MT 59714

REF # **14700907** BOX # **0**
LAB # **NW140390**

Date Sampled

Date Received **10/31/2013**

Date Reported **11/5/2013**

Nutrient In The Soil		Interpretation				1st Crop Choice			2nd Crop Choice			3rd Crop Choice					
Nitrate	0-12"	64 lb/ac	*****				Barley										
							YIELD GOAL			YIELD GOAL			YIELD GOAL				
							130 BU			0			0				
							SUGGESTED GUIDELINES			SUGGESTED GUIDELINES			SUGGESTED GUIDELINES				
							University										
	Olsen	117 ppm	*****				LB/ACRE	APPLICATION			LB/ACRE	APPLICATION			LB/ACRE	APPLICATION	
	Phosphorus						N	130			N				N		
	Potassium	1183 ppm	*****				P ₂ O ₅	0			P ₂ O ₅				P ₂ O ₅		
							K ₂ O	0			K ₂ O				K ₂ O		
	Chloride						Cl				Cl				Cl		
	0-12"	48 lb/ac	*****				S	0			S				S		
	Sulfur						B				B				B		
	Boron						Zn	Not Available			Zn				Zn		
	Zinc	2.54 ppm	*****				Fe				Fe				Fe		
	Iron						Mn				Mn				Mn		
	Manganese						Cu				Cu				Cu		
	Copper						Mg				Mg				Mg		
	Magnesium						Lime				Lime				Lime		
	Calcium																
	Sodium																
	Org.Matter	4.3 %	*****														
	Carbonate(CCE)																
	0-12"	0.36 mmho/cm	*****				Soil pH	Buffer pH	Cation Exchange Capacity	% Base Saturation (Typical Range)							
	Sol. Salts									% Ca	% Mg	% K	% Na	% H			
							0-6"	7.9									

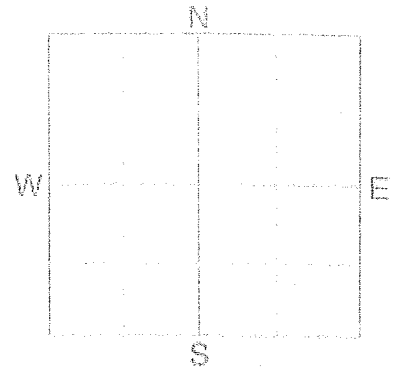
Crop 1: Soil Nitrogen level is estimated at 64 lbs/acre. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 61 K2O = 65 University guidelines will build P & K soil test levels to the medium range over many years.



Soil Analysis by Agvise Laboratories
(http://www.agvise.com)
Northwood: (701) 587-6010
Benson: (320) 843-4109

SOIL TEST REPORT

FIELD ID
SAMPLE ID **KORELS Karch**
FIELD NAME
COUNTY
TWP RANGE
SECTION QTR ACRES **0**
PREV. CROP **Alfalfa**



SUBMITTED FOR:
LARRY KLOMPIEN

SUBMITTED BY: **CE3923**
ROCKY MTN SUPPLY
311 GALLATIN FARMERS
PO BOX 129
BELGRADE, MT 59714

REF # **14700908** BOX # **0**
LAB # **NW140401**

Date Sampled

Date Received **10/31/2013**

Date Reported **11/5/2013**

Nutrient In The Soil		Interpretation	1st Crop Choice		2nd Crop Choice		3rd Crop Choice	
Nitrate	0-12"	34 lb/ac	Alfalfa					
			YIELD GOAL		YIELD GOAL		YIELD GOAL	
			8 Tons		0		0	
			SUGGESTED GUIDELINES		SUGGESTED GUIDELINES		SUGGESTED GUIDELINES	
			University					
Olsen Phosphorus	18 ppm		LB/ACRE	APPLICATION	LB/ACRE	APPLICATION	LB/ACRE	APPLICATION
			N	0	N		N	
			P ₂ O ₅	0	P ₂ O ₅		P ₂ O ₅	
			K ₂ O	0	K ₂ O		K ₂ O	
			Cl		Cl		Cl	
Chloride	0-12"	24 lb/ac	S	25 Broadcast	S		S	
			B		B		B	
			Zn	Not Available	Zn		Zn	
			Fe		Fe		Fe	
			Mn		Mn		Mn	
Sulfur			Cu		Cu		Cu	
			Mg		Mg		Mg	
			Lime		Lime		Lime	
			Soil pH		Cation Exchange Capacity		% Base Saturation (Typical Range)	
			Buffer pH				% Ca	% Mg
Boron							% K	% Na
							% H	
Zinc	1.22 ppm							
Iron								
Manganese								
Copper								
Magnesium								
Calcium								
Sodium								
Org. Matter	2.9 %							
Carbonate(CCE)								
Sol. Salts	0-12"	0.28 mmho/cm						

Crop 1: Soil Nitrogen level is estimated at 34 lbs/acre. Nitrogen is credited 50 lbs for the previous crop on University Guidelines. Nitrogen credits may need to be adjusted based on local conditions. Many crops may respond to a starter application of P & K even on high soil tests. Crop Removal: P2O5 = 80 K2O = 400 University guidelines will build P & K soil test levels to the medium range over many years.

Section F - CERTIFICATION

Permittee Information: This form must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

All Permittees Must Complete the Following Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment for knowing violations. [75-5-633, MCA]

A. Name (Type or Print)

Larry Klompier

Lorraine Klompier

B. Title (Type or Print)

Owners

C. Phone No.

282-7697

D. Signature

[Signature]

[Signature]

E. Date Signed

Oct. 21, 2013

The Department will not process this form until all of the requested information is supplied, and the appropriate fees are paid. Return this form and the applicable fee to:

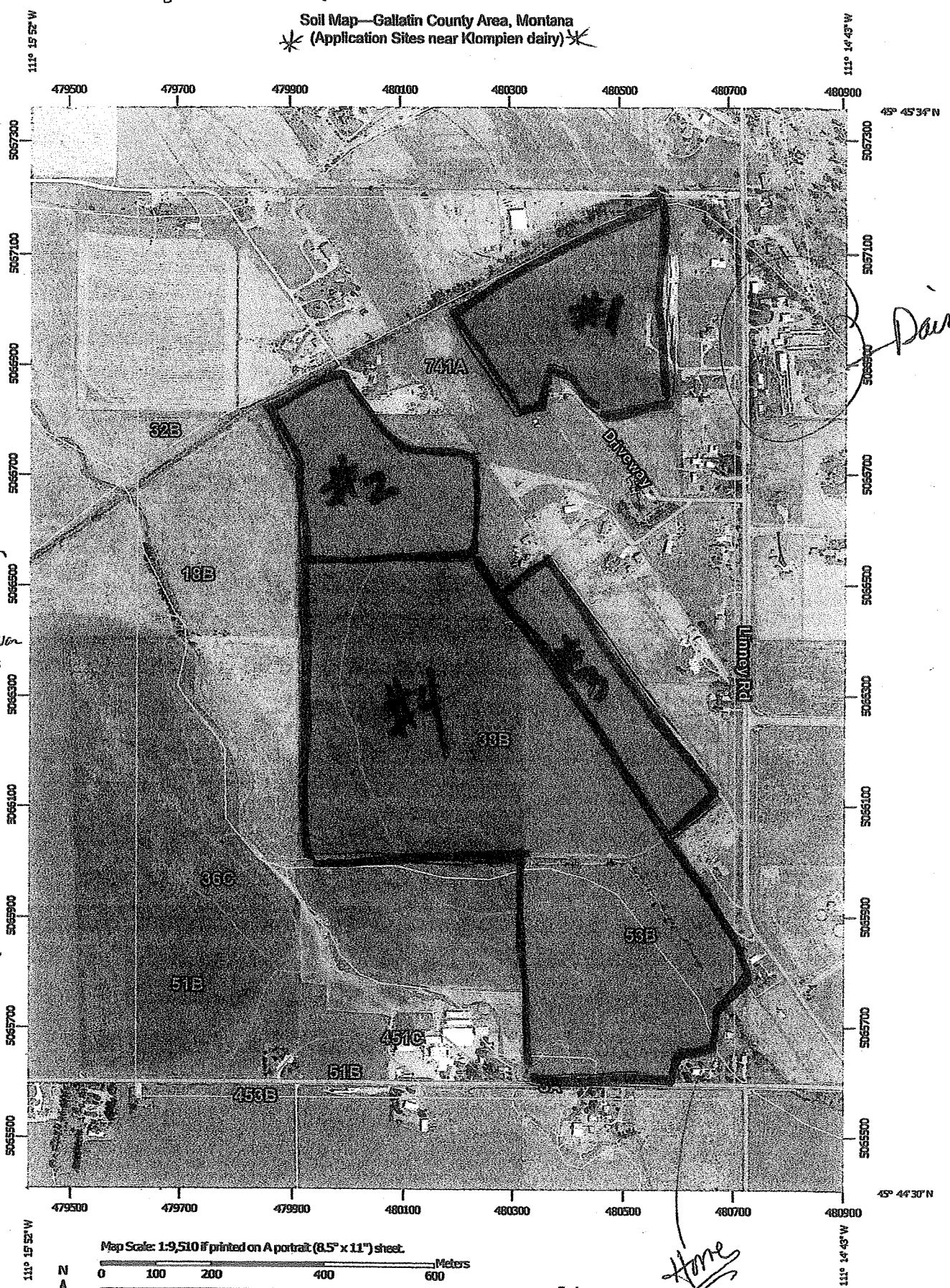
Department of Environmental Quality
Water Protection Bureau
PO Box 200901
Helena, MT 59620-0901
(406) 444-3080

OCT 29 2013
DEQ/WPB
PERMITTING & COMPLIANCE DIV.

Larry & Joanne 11/1/14
3 Hagen C Dairy

Soil Map—Gallatin County Area, Montana
 * (Application Sites near Klompier dairy) *

Fields
Hoffman
 Beaverell-
 Beaverell
 Complex
 741A
 +
Albihi
 741A
 Beaverell
 Beaverell
 Complex
 +
 38B
 hook fine
 sandy loam
Karch
 Beaverell-Beaverell
 Complex 741A
 +
 hook fine
 sandy loam
 38B
 +
 interloam
 silt loam
 53B
West of
Home
 Beaverell-
 Beaverell
 Complex
 741A
 +
 interloam
 silt
 loam
 53B
 +
 hook
 fine
 sandy
 loam
 38B



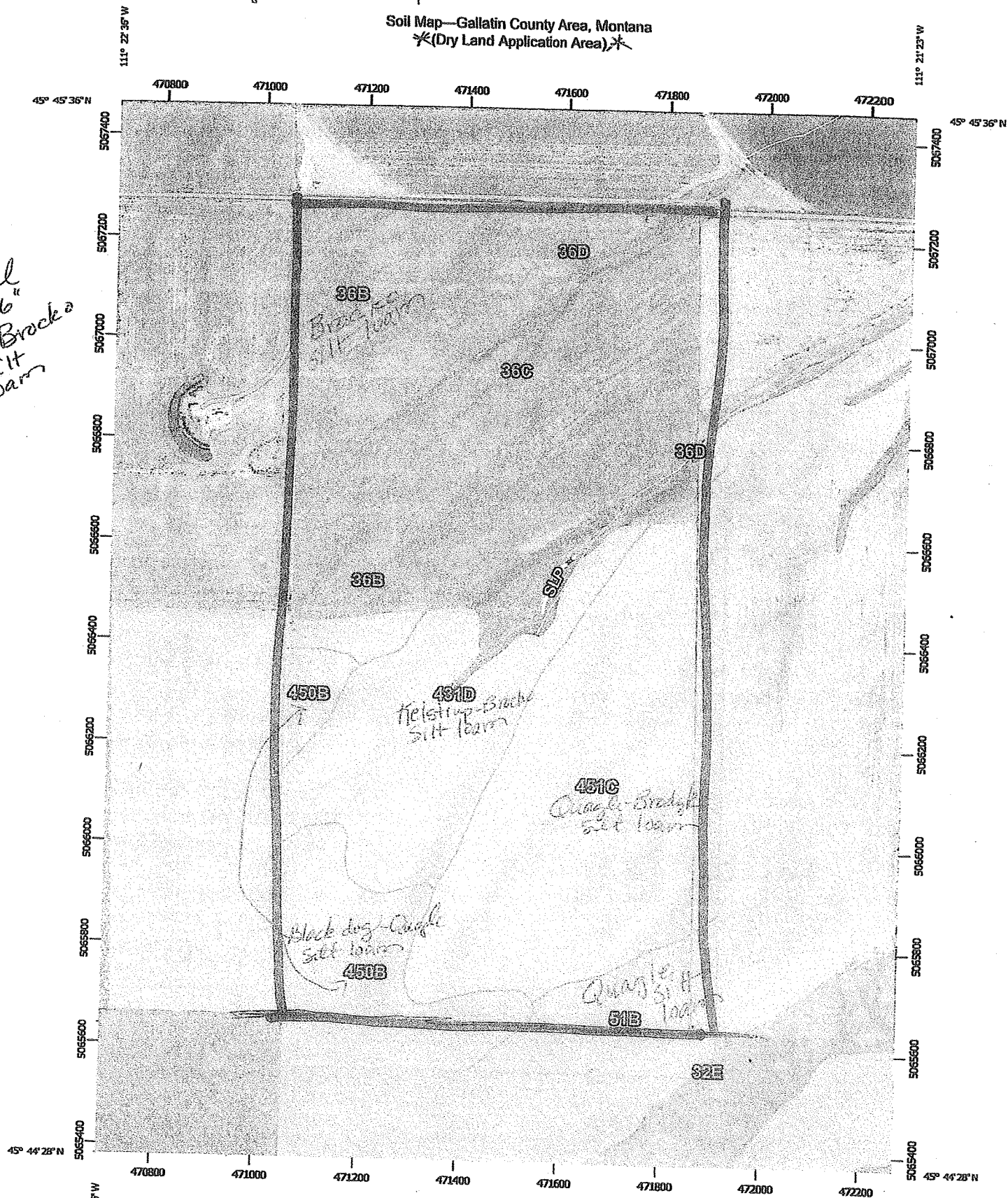
Map Scale: 1:9,510 if printed on A portrait (8.5" x 11") sheet.
 0 100 200 400 600 Meters
 0 450 900 1800 2700 Feet
 Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 12N WGS84

Jerry & Lorraine Blompen
3 Hargen' C. Dain

CAFO MT6010052

Soil Map—Gallatin County Area, Montana
(Dry Land Application Area)

all
"36"
is Brock
silt
loam



Map Scale: 1:10,100 if printed on A portrait (8.5" x 11") sheet.

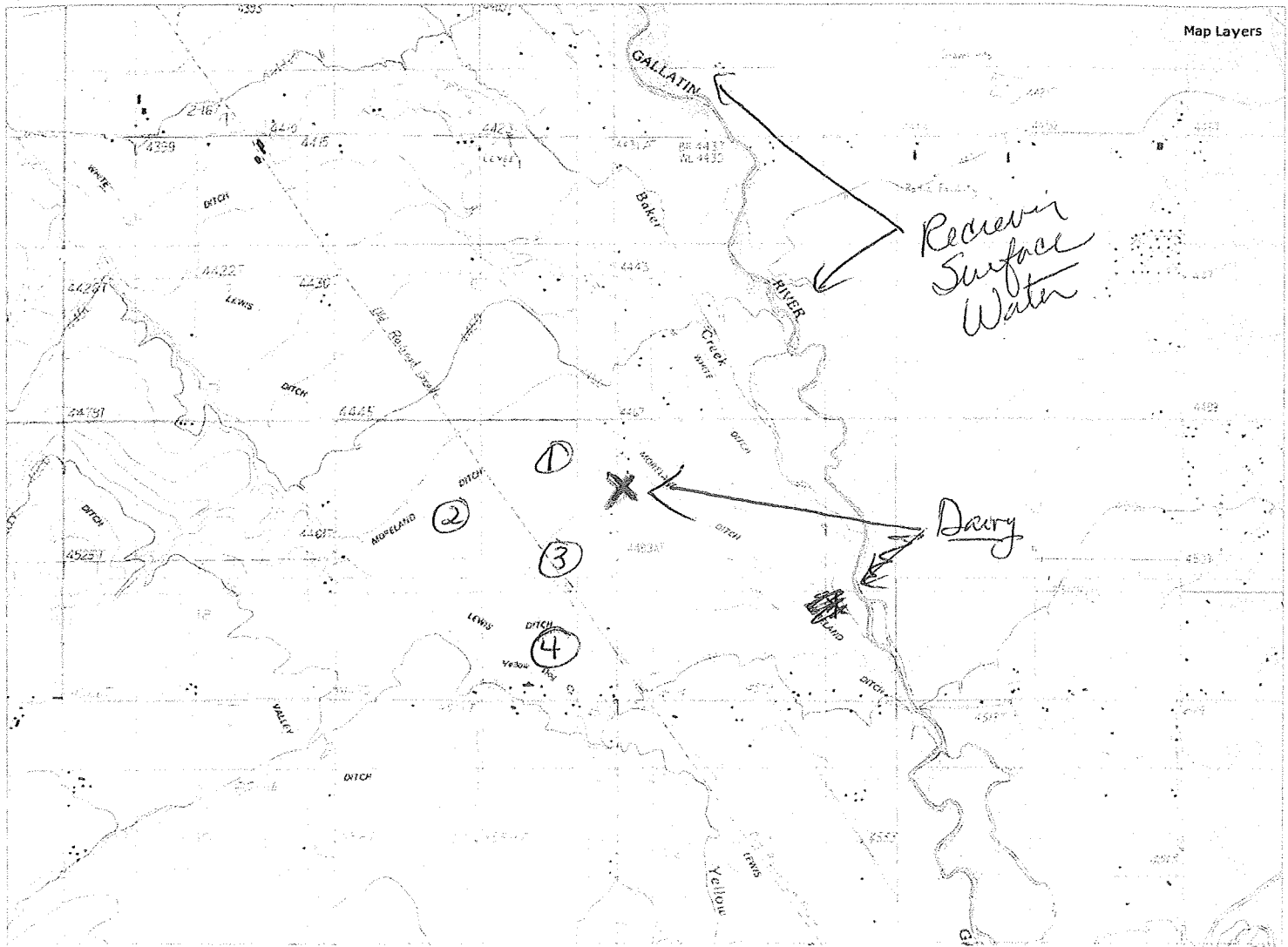


Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 12N WGS84



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey



Larry & Lorraine Klomgren

3 Hargin' C Dairy

CaFo # MTG 010052

Topo map of location of facility with
1 mile radius extension, site of receiving
surface water (Gallatin River).

Approximate locations of where manure is spread.
Field 1-4, dryland is over 4 miles away.
#5

See
next
page

Fields 1, 2, 3 + 4

Down gradient surface H_2O
→ outlined in Blue

② No agriculture well herbs
near these fields

③ Soil type see attached NRCS maps

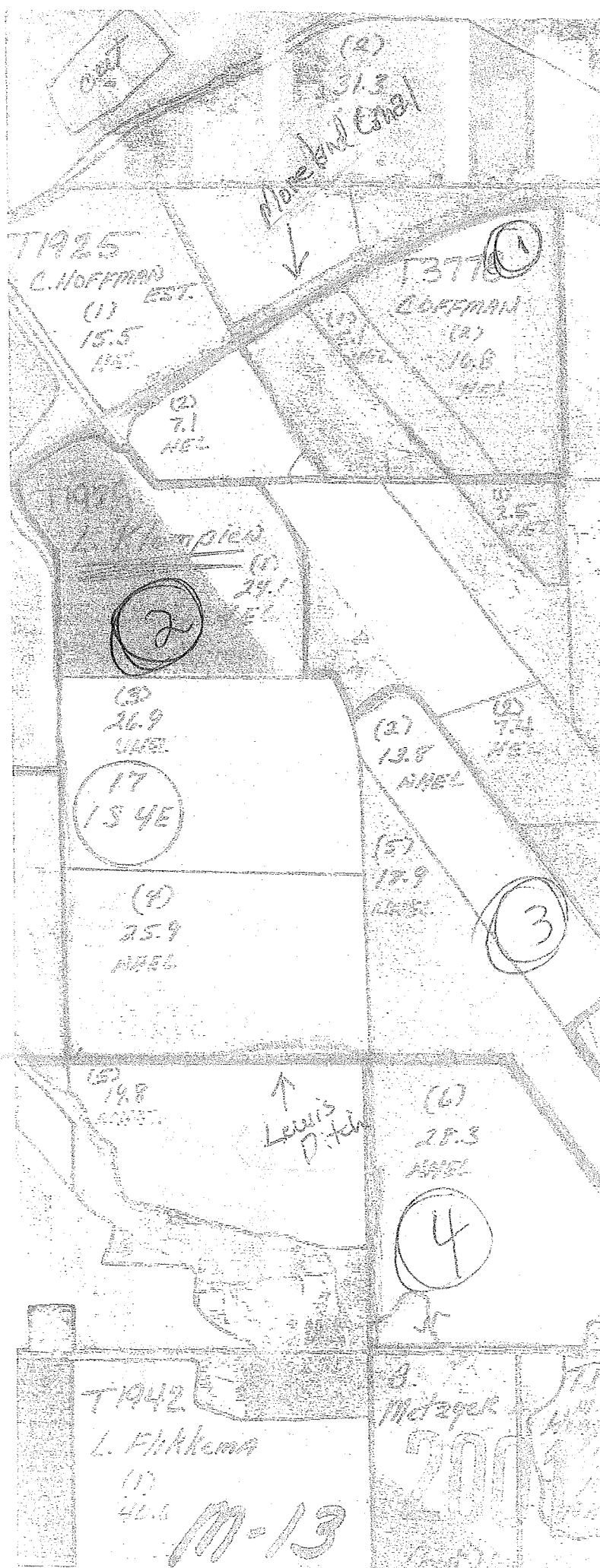
④ No crops or spreading of manure within 25' of state water.

There is grass & trees
along the state water.

Larry & Laurie Klomp

3 Hargis' C Dairy

CATO permit MITG 010052



Larry & Tom
3069 Corner Bridge at
Manhattan, NY 10011
(282-7697)

State Land Parcel

Field #5

(2)
22.0
HEL

(3)
72.0
HEL

T1816
STATE
(1)
142.9
HEL

grassy
area
where
run
goes

Down gradient
surface to 0
The Lowline
Irrigation
Canal is
3/4 mile
northwest

Agriculture
wellhead
1/2 mile
north

(4)
38.0
HEL

16
15 3E

Soil type
see
attached
NRCS maps

No crops or
spreading of
manure
within 15-20 ft
of entire
Boundary -

No State
water is
near
here

(5)
63.0
HEL

(6)
35.0
HEL

(2)
44.0
HEL

(3)
88.7
HEL

grassy
area
where
run
goes

T1826
(1)
65.4
HEL

J-13H

2001

Map Unit Legend

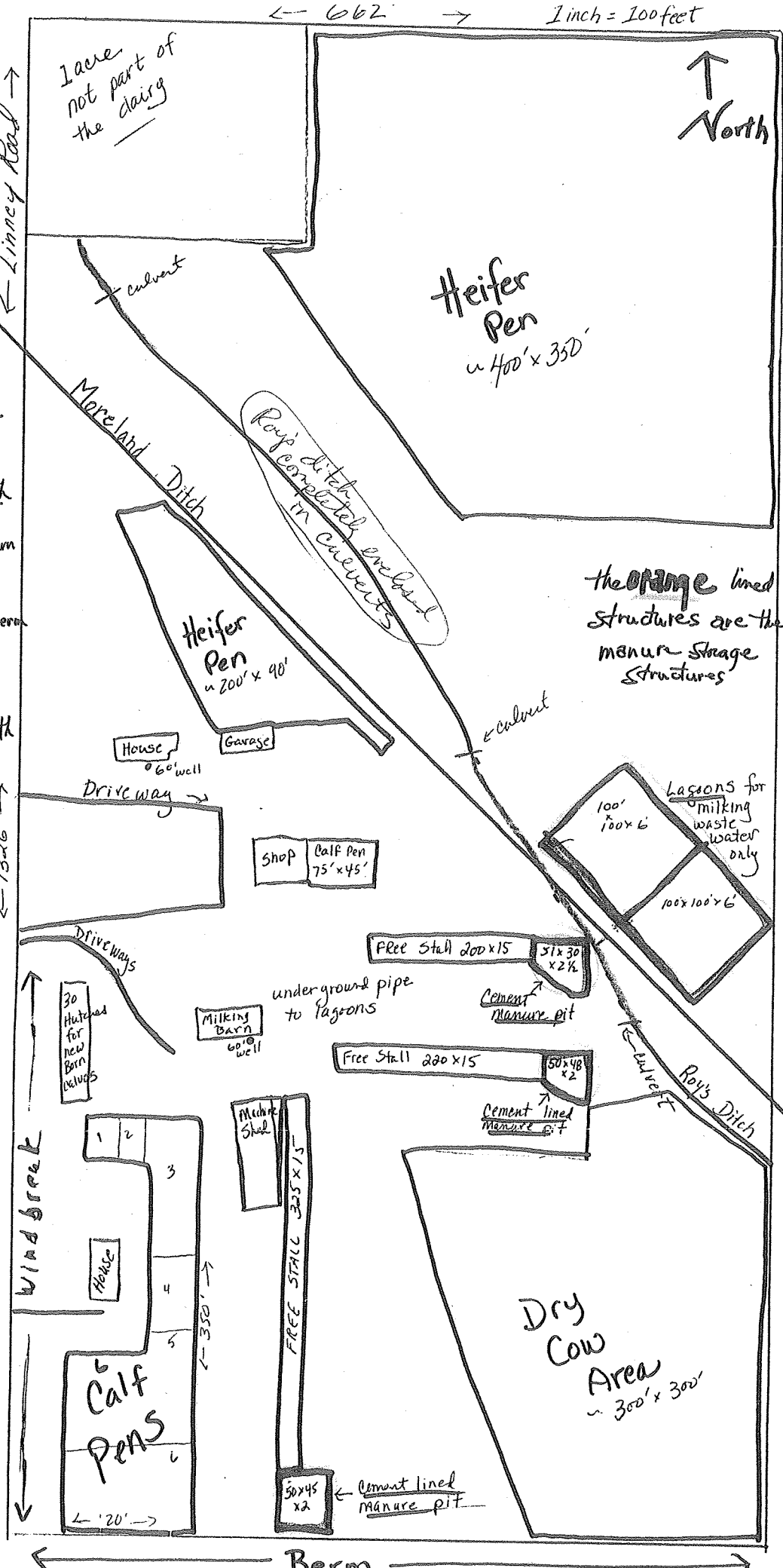
Soil types

Gallatin County Area, Montana (MT622)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
3A	Glendive sandy loam, 0 to 2 percent slopes	6.3	1.2%
18B	Clarkstone silt loam, 0 to 4 percent slopes	34.0	6.2%
32B	Amesha loam, 0 to 4 percent slopes	3.8	0.7%
36C	Brocko silt loam, 4 to 8 percent slopes	10.7	2.0%
38B <i>2, 3 & 4</i>	Chinook fine sandy loam, 0 to 4 percent slopes	72.8	13.3%
51B	Quagle silt loam, 0 to 4 percent slopes	41.8	7.7%
53B <i>4</i>	Amsterdam silt loam, 0 to 4 percent slopes	87.1	16.0%
401A <i>Dairy</i>	Rivra, moist-Ryell-Bonebasin, 0 to 2 percent slopes	2.8	0.5%
451C	Quagle-Brodyk silt loams, 4 to 8 percent slopes	16.5	3.0%
453B	Amsterdam-Quagle silt loams, 0 to 4 percent slopes	2.4	0.4%
741A <i>Dairy # 1, 2, 3, 4</i>	Beaverell-Beavwan complex, 0 to 2 percent slopes	267.7	49.0%
Totals for Area of Interest		546.0	100.0%

Klompier Dairy 19 acres

Larry & Loretta
 Klompier
 CAFO # 010052

The drainage pattern is slightly North
 On the Southern border of the dairy is a 6' berm which prevents any runoff from the South reaching the dairy



Lakey Thompson Dairy
Dead Animal Burial Site
CATA #010052

